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DATE MAILED: 02/18/2004

Г	APPLICATION NO.	FIL	ING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	_
10/019,160		10/19/2001		William R. Priedeman JR.	S697.12-0036	6414	
	164	7590	02/18/2004		EXAMINER] ()
	KINNEY & LANGE, P.A.				TENTON	11	
THE KINNEY & LANGE BUILDING 312 SOUTH THIRD STREET					ART UNIT	PAPER NUMBER]
	MINNEAPO				1732		_

Please find below and/or attached an Office communication concerning this application or proceeding.

· · · · · · · · · · · · · · · · · · ·		Applicatio	n No.	Applicant(s)				
		10/019,160		PRIEDEMAN ET AL.				
	Office Action Summary	Examiner		Art Unit				
		Leo B. Ten		1732				
Period fo	The MAILING DATE of this communica or Reply	tion appears on the	cover sheet with the c	orrespondence address				
A SHOTHE I	ORTENED STATUTORY PERIOD FOR MAILING DATE OF THIS COMMUNICA asions of time may be available under the provisions of SIX (6) MONTHS from the mailing date of this communication of the reply specified above is less than thirty (30) of period for reply is specified above, the maximum statute to reply within the set or extended period for reply will eply received by the Office later than three months after ad patent term adjustment. See 37 CFR 1.704(b).	ATION. TOFR 1.136(a). In no every cation. ays, a reply within the statu ory period will apply and will by statute cause the appli	nt, however, may a reply be tin tory minimum of thirty (30) day expire SIX (6) MONTHS from cation to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
Status								
1) 🗌	Responsive to communication(s) filed	on						
2a) <u></u> □	,)⊠ This action is no						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the ments is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.								
Disposit	ion of Claims	·						
•	Claim(s) <u>1-37</u> is/are pending in the app	olication						
4)[4a) Of the above claim(s) is/are		nsideration.					
5)	Claim(s) is/are allowed.							
,	Claim(s) <u>1-37</u> is/are rejected.							
•	Claim(s) is/are objected to.							
8)	Claim(s) are subject to restriction	on and/or election re	equirement.					
Applicat	ion Papers							
	The specification is objected to by the							
10)⊠	The drawing(s) filed on 19 October 200							
	Applicant may not request that any objection							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority	under 35 U.S.C. § 119	•						
•	Acknowledgment is made of a claim fo	r foreign priority und	der 35 U.S.C. § 119(a	a)-(d) or (f).				
a)	1. ☐ Certified copies of the priority do	ocuments have bee	n received.					
	2. Certified copies of the priority do			tion No				
	3. Copies of the certified copies of							
	application from the International							
*	See the attached detailed Office action			ed.				
Attachme	nt(s)			÷				
	ce of References Cited (PTO-892)	O 048)	4) Interview Summar Paper No(s)/Mail [
3) 🛭 Info	ce of Draftsperson's Patent Drawing Review (PTo rmation Disclosure Statement(s) (PTO-1449 or P er No(s)/Mail Date <u>10192001</u> .			Patent Application (PTO-152)				

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DETAILED ACTION

Specification

1. The disclosure is objected to because of the following informalities: On page 1, before line 1, reference should be made to the provisional application (including serial number and filing date) and, preferably, to the PCT application as well.

Appropriate correction is required.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 24-37 are rejected under 35 U.S.C. 102(b) as being anticipated by Fan et al (U.S. Patent 5,474,719).

Fan et al (see the entire document, in particular, col. 28, line 8 to col. 29, line 49) teach a process of making three-dimensional objects by depositing solidifiable material onto a base as claimed, including the step of providing as the solidifiable material an alkali-soluble thermoplastic comprising a base polymer containing a carboxylic acid, and a plasticizer. Fan et al also teach a three-dimensional object comprised of an alkali-soluble thermoplastic material comprising a base polymer containing a carboxylic acid, and a plasticizer.

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Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).
- 6. Claims 1-23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Pomerantz et al (U.S. Patent 4,961,154) in combination with Fan et al (U.S. Patent 5,474,719).

Pomerantz et al (see the entire document, in particular, col. 12, line 27 to col. 14, line 2) teach a process of making a three-dimensional object as set forth in the instant claims, including providing a support structure for the three-dimensional

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object, except that Pomerantz et al do not specifically teach the claimed support structure material, which is taught by Fan et al (see the entire document, in particular, col. 28, line 8 to col. 29, line 49) and such would have been obvious to one of ordinary skill in the art at the time the invention was made in the process of Pomerantz et al in view of Fan et al principally in order to provide a support structure having desired strength and rigidity.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Leo B. Tentoni whose telephone number is (571) 272-1209. The examiner can normally be reached on Monday - Friday (6:30 A.M. - 3:00 P.M.).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael P. Colaianni can be reached on (571) 272-1196. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Leo B. Tenton

Leo B. Tentoni Primary Examiner Art Unit 1732

lbt